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(71) Applicant (for all designated States except US): ENGINEERING VORTEX SOLUTIONS PTY LTD [AU/AU]; 46 Amy Street, Regents Park, NSW 2143 (AU).

(72) Inventor; and

(75) Inventor/Applicant (for US only): WU, Jao [AU/AU]; 47 Bombay Street, Lidcombe, NSW 2141 (AU).

(74) Agent: HODGKINSON AND McINNES; Level 3, 20 Alfred Street, Milsons Point, NSW 2061 (AU).

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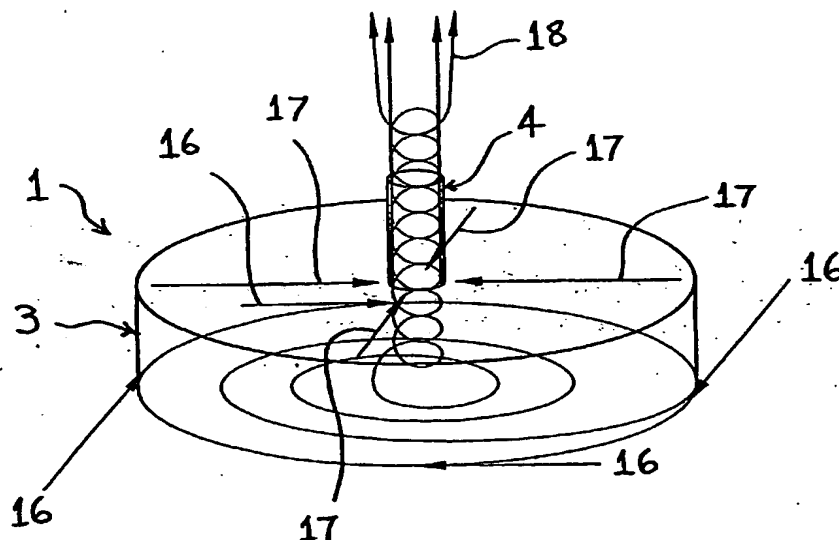
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(54) Title: APPARATUS FOR REGULATING FLUID FLOW THROUGH A SPRAY NOZZLE



(57) Abstract: An apparatus for regulating fluid flow through a spray nozzle comprising a circular chamber (1) defined by spaced apart end walls, a peripheral side wall (3), a central axis, and a first inlet at or near the peripheral side wall (3) to allow a flow of fluid to enter said chamber (1) tangential to the peripheral side wall (3), and an outlet (4) exiting through one of the end walls. In use a flow of fluid entering through the first inlet has a primary lower layer (16) that follows a first circular flow path which forms a vortex commencing at the peripheral side wall (3) and increases in velocity and pressure towards the outlet and at least one secondary upper layer (17) that substantially follows a second flow path radially inwardly towards the central axis. The primary lower layer (16) and the secondary upper layer (17) interact and support each other over at least a portion of flow between the inlet and outlet (4).